

Section II  
Soil and Site Information

Construction Materials Table 2  
Aurora County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AaA: Alwilda-----	85	Fair Low content of organic matter Droughty	0.12 0.99	Good		Fair Hard to reclaim	0.50
Ar: Arlo-----	85	Fair Low content of organic matter Carbonate content	0.12 0.92	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Hard to reclaim Carbonate content	0.00 0.82 0.92
BaA: Beadle-----	85	Poor Too clayey  Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00
BaB: Beadle-----	85	Poor Too clayey  Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00
BdA: Beadle-----	45	Poor Too clayey  Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dudley-----	35	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.59	Poor Depth to permafrost Sodium content Too Clayey Salinity	0.00 0.00 0.00 0.50
BeE: Betts-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Slope Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.87	Poor Slope Depth to permafrost Carbonate content	0.00 0.00 0.92
Ethan-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Slope Shrink-swell	0.00 0.00 0.50 0.87	Poor Slope Depth to permafrost Carbonate content	0.00 0.00 0.97
BnA: Blendon-----	85	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
BnB: Blendon-----	85	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Bo: Bon-----	85	Good		Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bx: Bon-----	85	Good		Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Ca: Clamo-----	85	Poor Too clayey	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Water erosion	0.99	Low strength	0.00	Too Clayey	0.00
				Depth to saturated zone	0.00	Depth to saturated zone	0.00
				Shrink-swell	0.12		
CbB: Clarno-----	85	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Water erosion	0.99	Low strength	0.00		
				Shrink-swell	0.87		
CeC: Clarno-----	50	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Water erosion	0.99	Low strength	0.00		
				Shrink-swell	0.87		
Ethan-----	30	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Carbonate content	0.68	Low strength	0.00	Carbonate content	0.97
		Water erosion	0.99	Shrink-swell	0.87		
CpA: Clarno-----	50	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Water erosion	0.99	Low strength	0.00		
				Shrink-swell	0.87		

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Prosper-----	30	Fair Low content of organic matter Too clayey Water erosion	0.12 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost Too Clayey	0.00 0.93
DaA: Degrey-----	50	Poor Sodium content  Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.26	Poor Depth to permafrost Too Clayey Sodium content  Salinity	0.00 0.00 0.22 0.88
Jerauld-----	30	Poor Sodium content  Low content of organic matter Too clayey Salinity Water erosion	0.00 0.12 0.32 0.88 0.99	Poor Depth to permafrost Low strength  Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Sodium content  Salinity Too Clayey	0.00 0.00 0.00 0.19
DeA: Degrey-----	50	Poor Sodium content  Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.26	Poor Depth to permafrost Too Clayey Sodium content  Salinity	0.00 0.00 0.22 0.88
Onita-----	30	Poor Too clayey  Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to permafrost Low strength  Shrink-swell	0.00 0.00 0.56	Poor Depth to permafrost Too Clayey	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DmA: Delmont-----	50	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.73	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
Enet-----	30	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
DmB: Delmont-----	55	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.73	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
Enet-----	25	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
DnC: Delmont-----	55	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.73	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
Talmo-----	25	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.39	Good		Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.37
Do: Dimo-----	85	Fair Low content of organic matter	0.12	Fair Depth to saturated zone	0.76	Fair Hard to reclaim Depth to saturated zone	0.08 0.76

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DsA: Dudley-----	50	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.59	Poor Depth to permafrost Sodium content Too Clayey Salinity	0.00 0.00 0.00 0.50
Jerauld-----	30	Poor Sodium content Low content of organic matter Too clayey Salinity Water erosion	0.00 0.12 0.32 0.88 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Sodium content Salinity Too Clayey	0.00 0.00 0.00 0.19
Du: Durrstein-----	85	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to permafrost Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Sodium content Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.00 0.00 0.00
EdA: Eakin-----	50	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.95	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.79

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Degrey-----	30	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.26	Poor Depth to permafrost Too Clayey Sodium content Salinity	0.00 0.00 0.22 0.88
EeB: Eakin-----	50	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.95	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.79
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
EnA: Enet-----	85	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
EtD: Ethan-----	45	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.97
Betts-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Slope Carbonate content	0.00 0.37 0.92

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HbA: Highmore-----	50	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.95	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Too Clayey	0.00 0.84
Onita-----	30	Poor Too clayey  Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.56	Poor Depth to permafrost Too Clayey	0.00 0.00
HdA: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Dudley-----	30	Poor Sodium content  Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.59	Poor Depth to permafrost Sodium content Too Clayey  Salinity	0.00 0.00 0.00 0.50
HdB: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dudley-----	30	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.59	Poor Depth to permafrost Sodium content Too Clayey Salinity	0.00 0.00 0.00 0.50
HeB: Houdek-----	55	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Ethan-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
HeC: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost Carbonate content	0.00 0.97
HhA: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hoven-----	30	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00 0.00
HhB: Houdek-----	60	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Hoven-----	20	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00 0.00
HoB: Houdek-----	60	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Plankinton-----	20	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HpA: Houdek-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to permafrost	0.00
Prosper-----	30	Fair Low content of organic matter Too clayey Water erosion	0.12 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost Too Clayey	0.00 0.93
Hv: Hoven-----	85	Poor Too clayey  Sodium content  Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00 0.00
Hw: Hoven-----	45	Poor Too clayey  Sodium content  Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00 0.00
Plankinton-----	35	Poor Too clayey  Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
La: Lane-----	85	Fair Too clayey  Low content of organic matter Water erosion	0.32  0.50 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to permafrost Too Clayey	0.00 0.21
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
MaA: Millboro Variant----	85	Poor Too clayey  Droughty Water erosion	0.00  0.76 0.99	Poor Depth to permafrost Low strength Shrink-swell Depth to bedrock	0.00 0.00 0.49 0.58	Poor Depth to permafrost Too Clayey	0.00 0.00
MaB: Millboro Variant----	85	Poor Too clayey  Droughty Water erosion	0.00  0.76 0.99	Poor Depth to permafrost Low strength Shrink-swell Depth to bedrock	0.00 0.00 0.49 0.58	Poor Depth to permafrost Too Clayey	0.00 0.00
Oa: Onita-----	85	Poor Too clayey  Low content of organic matter Water erosion	0.00  0.12 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.56	Poor Depth to permafrost Too Clayey	0.00 0.00
Or: Orthents, Loamy-----	80	Not rated		Not rated		Not rated	
Orthents, Shaly-----	20	Not rated		Not rated		Not rated	

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Pg: Orthents, Gravelly--	100	Fair Droughty Low content of organic matter Too sandy	0.05 0.12 0.14	Not Rated Slope	0.00	Poor Rock fragments Slope  Too sandy Hard to reclaim	0.00 0.00  0.14 0.18
Pt: Plankinton-----	55	Poor Too clayey  Low content of organic matter Water erosion	0.00  0.50 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00
Prosper-----	25	Fair Low content of organic matter Too clayey Water erosion	0.12 0.98 0.99	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost Too Clayey	0.00 0.93
TaC: Talmo-----	100	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.39	Good		Poor Too sandy Rock fragments  Hard to reclaim Slope	0.00 0.00  0.00 0.96
TdE: Talmo-----	55	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.39	Poor Slope	0.00	Poor Slope Too sandy  Rock fragments Hard to reclaim	0.00 0.00  0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Delmont-----	25	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.73	Fair Slope	0.50	Poor Slope Too sandy  Rock fragments Hard to reclaim	0.00 0.00  0.00 0.32
Te: Tetonka-----	85	Poor Too clayey  Low content of organic matter Water erosion	0.00  0.50 0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.17	Poor Depth to permafrost Depth to saturated zone Too Clayey	0.00 0.00 0.00
W: Water-----	100	Not rated		Not rated		Not rated	
Wo: Worthing-----	85	Poor Too clayey  Water erosion	0.00  0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Too Clayey  Depth to saturated zone	0.00 0.00 0.00 0.00
Wp: Worthing-----	85	Poor Too clayey  Water erosion	0.00  0.99	Poor Depth to saturated zone Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Depth to permafrost Too Clayey  Depth to saturated zone	0.00 0.00 0.00 0.00

